Docket No.: PC-0022 CIP USSN:09/747,524 Exhibit No. A





Nucleotide

PubMed	Nucleotide	Protein	Genome	Structure	PopSet	Taxonomy	OMIM	Books
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Quantity of the second	A Committee of the Comm	Limits	Preview/Ir	ndex Hi	istory	Clipboard	Deta	ails
Display	Display default ▼ Save Text			d to Clipboard	Get Subsequence			

☐ 1: BC008489. Homo sapiens, hyp...[gi:14250143]

MapView, Related Sequences, Protein, Taxonomy,
LinkOut

LOCUS BC008489 1798 bp mRNA linear PRI 12-JUL-2001

DEFINITION Homo sapiens, hypothetical protein NUF2R, clone MGC:14815

IMAGE: 4134468, mRNA, complete cds.

ACCESSION BC008489

VERSION BC008489.1 GI:14250143

KEYWORDS MGC.

SOURCE Homo sapiens.
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 1798)

AUTHORS Strausberg, R.

TITLE Direct Submission

JOURNAL Submitted (25-MAY-2001) National Institutes of Health, Mammalian

Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,

USA

REMARK NIH-MGC Project URL: http://mgc.nci.nih.gov

COMMENT

Contact: MGC help desk
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC

cDNA Library Preparation: CLONTECH Laboratories, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Sequencing Group at the Stanford Human Genome Center, Stanford University School of Medicine, Stanford, CA 94305

Web site: http://www-shgc.stanford.edu
Contact: (Dickson, Mark) mcd@paxil.stanford.ed

Contact: (Dickson, Mark) mcd@paxil.stanford.edu
Dickson, M., Schmutz, J., Grimwood, J., Rodriquez, A., and Myers,

R. M.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov

Series: IRAL Plate: 21 Row: 1 Column: 21

This clone was selected for full length sequencing because it passed the following selection criteria: Hexamer frequency ORF

analysis, GenomeScan gene prediction.

FEATURES

Location/Qualifiers

source 1..1798

/organism="Homo sapiens"
/db_xref="LocusID: 83540"
/db_xref="taxon:9606"

/clone="MGC:14815 IMAGE:4134468"

/tissue_type="Bone marrow, chronic myelogenous leukemia"

/clone_lib="NIH_MGC_54"

/lab_host="DH10B"

/note="Vector: pDNR-LIB"

CDS 88..1482

/codon_start=1

/product="hypothetical protein NUF2R"

/protein_id="<u>AAH08489.1</u>"

/db_xref="GI:14250144"

/translation="METLSFPRYNVAEIVIHIRNKILTGADGKNLTKNDLYPNPKPEVLHMIYMRALQIVYGIRLEHFYMMPVNSEVMYPHLMEGFLPFSNLVTHLDSFLPICRVNDFETADILCPKAKRTSRFLSGIINFIHFREACRETYMEFLWQYKSSADKMQQLNAAHQEALMKLERLDSVPVEEQEEFKQLSDGIQELQQSLNQDFHQKTIVLQEGNSQKKSNISEKTKRLNELKLSVVSLKEIQESLKTKIVDSPEKLKNYKEKMKDTVQKLKNARQEVVEKYEIYGDSVDCLPSCQLEVQLYQKKIQDLSDNREKLASILKESLNLEDQIESDESELKKLKTEENSFKRLMIVKKEKLATAQFKINKKHEDVKQYKRTVIEDCNKVQEKRGAVYERVTTINQEIQKIKLGIQQLKDAAEREKLKSQEIFLNLKTALEKYHDGIEKAAEDSYAKIDEKTAELKRKMFKMST"

BASE COUNT ORIGIN 673 a 290 c 352 g 483 t

1 gatttttgac tttgcttgta gctgctcccc gaactcgccg tcttcctgtc ggcggccggc 61 actgtagatt aacaggaaac ttccaagatg gaaactttgt ctttccccag atataatgta 121 gctgagattg tgattcatat tcgcaataag atcttaacag gagctgatgg taaaaacctc 181 accaagaatg atctttatcc aaatccaaag cctgaagtct tgcacatgat ctacatgaga 241 gccttacaaa tagtatatgg aattcgactg gaacattttt acatgatgcc agtgaactct 301 gaagtcatgt atccacattt aatggaaggc ttcttaccat tcagcaattt agttactcat 361 ctggactcat ttttgcctat ctgccgggtg aatgactttg agactgctga tattctatgt 421 ccaaaagcaa aacggacaag tcggttttta agtggcatta tcaactttat tcacttcaga 481 gaagcatgcc gtgaaacgta tatggaattt ctttggcaat ataaatcctc tgcggacaaa 541 atgcaacagt taaacgccgc acaccaggag gcattaatga aactggagag acttgattct 601 gttccagttg aagagcaaga agagttcaag cagctttcag atggaattca ggagctacaa 661 caatcactaa atcaggattt tcatcaaaaa acgatagtgc tgcaagaggg aaattcccaa 721 aagaagtcaa atatttcaga gaaaaccaag cgtttgaatg aactaaaatt gtcggtggtt 781 tctttgaaag aaatacaaga gagtttgaaa acaaaaattg tggattctcc agagaagtta 841 aagaattata aagaaaaaat gaaagatacg gtccagaagc ttaaaaatgc cagacaagaa 901 gtggtggaga aatatgaaat ctatggagac tcagttgact gcctgccttc atgtcagttg 961 gaagtgcagt tatatcaaaa gaaaatacag gacctttcag ataataggga aaaattagcc 1021 agtatcttaa aggagagcct gaacttggag gaccaaattg agagtgatga gtcagaactg 1081 aagaaattga agactgaaga aaattcgttc aaaagactga tgattgtgaa gaaggaaaaa 1141 cttgccacag cacaattcaa aataaataag aagcatgaag atgttaagca atacaaacgc 1201 acagtaattg aggattgcaa taaagttcaa gaaaaaagag gtgctgtcta tgaacgagta 1261 accacaatta atcaagaaat ccaaaaaatt aaacttggaa ttcaacaact aaaagatgct 1321 gctgaaaggg agaaactgaa gtcccaggaa atatttctaa acttgaaaac tgctttggag 1381 aaataccacg acggtattga aaaggcagca gaggactcct atgctaagat agatgagaag 1441 acagctgaac tgaagaggaa gatgttcaaa atgtcaacct gattaacaaa attacatgtc 1501 tttttgtaaa tggcttgcca tcttttaatt ttctatttag aaagaaaagt tgaagcgaat 1561 ggaagtatca gaagtaccaa ataatgttgg cttcatcagt ttttatacac tctcataagt 1621 agttaataag atgaatttaa tgtaggcttt tattaattta taattaaaat aacttgtgca 1681 gctattcatg tctctactct gccccttgtt gtaaatagtt tgagtaaaac aaaactagtt

Revised: July 5, 2002.

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